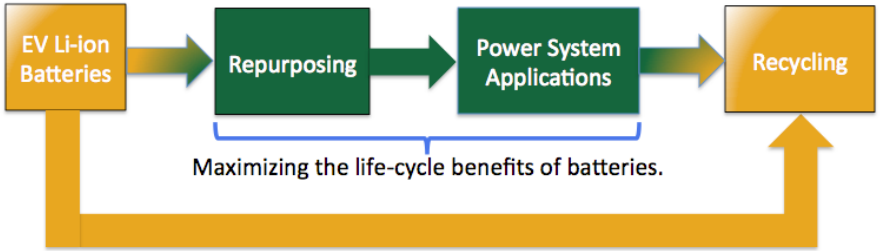
Economic Analyses of Employing Used Batteries in Power Systems

Chaitanya K. Narula, Omer Onar, Rocio Martinez, Michael Starke, and George Andrews
Oak Ridge National Laboratory, Oak Ridge, TN

Problem: What to do with used li-ion batteries to maximize their cycle life value.

Objective: Assessing value propositions from individual and synergistic applications in the power systems.



Approach: Estimating cost and market value of applications or avoided cost of the applications to construct benefit-cost ratios.

Collaborators: Sandia National Laboratories (SNL), Environmental Protection Agency (EPA).

Deliverables & Results: Cost and benefits of 26 applications have been identified and full economic analysis with synergistic benefits have been documented in final report ORNL/TM-2011/151.

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Final Report

Economic Analysis of Deploying Used Batteries in Power Systems

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Prepared by
Chaitanya K. Narula
Rocio Martinez
Omer Onar
Michael R. Starke
George Andrews

UT-BATTELLE

Future Work: Experimental validation and testing batteries on power system applications,

- Developing an economical analysis tool for energy storage applications,

- Validating the “customer side of the meter” benefits in a commercial building.

OAK RIDGE National Laboratory